Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

- 1-5. Canceled
- 6. (currently amended) A method for the diagnosis of a pathological condition in a human subject characterized by the over- or underexpression of a neurotrophic factor selected from the group consisting of BDNF (SEQ ID NO: 42), NT-3 (SEQ ID NO: 43), NT-4 (SEQ ID NO: 44) and NT-4/5 (SEQ ID NO: 45), said neurotrophic factor being capable of binding a human trkB receptor polypeptide comprising SEQ ID NO:2 or SEQ ID NO:4 or an immunoadhesin thereof, said method comprising:
- (a) contacting a biological sample obtained from said human subject with a detectably labeled human trkB receptor polypeptide comprising SEQ ID NO:2 or SEQ ID NO:4, or an immunoadhesin thereof capable of binding said neurotrophic factor, and
- (b) detecting the presence of said neurotrophic factor by monitoring the binding of said detectably labeled human trkB receptor polypeptide comprising SEQ ID NO:2 or SEQ ID NO:4, or an immunoadhesin thereof, to said neurotrophic factor,

wherein said subject is diagnosed with said pathological condition if said neurotrophic factor is over- or underexpressed in said sample <u>as compared to the expression of said neurotrophic factor</u> measured in a sample from a normal <u>subject</u>.

- 7. (previously presented) The method of claim 6 wherein said pathological condition is a malignancy.
- 8. (previously presented) The method of claim 7 wherein the pathological condition is a tumor overexpressing said neurotrophin.
- 9. (previously presented) The method of claim 6 wherein said biological sample is from the pancreas, and the disorder is a pancreatic disorder.

- 10. (withdrawn) The method of claim 6 wherein said pathological condition is aberrant sprouting in epilepsy.
- 11. (withdrawn) The method of claim 6 wherein said pathological condition is a psychiatric disorder.
- 12. (canceled) The method of claim 6 wherein said neurotrophic factor is selected from the group consisting of BDNF, NT-3, NT-4 and NT-4/5.